

| | | | | | |
|------------------------------------------------------------|-----------------------------------------|----------------------------------|--|-------------------------------|--|
| INFORMATION DISCLOSURE CITATION PTO-1449 | CUSTOMER NUMBER 25537 | ATTORNEY'S DKT No. RIC95042 | | APPLICATION No. 08/575,433 | |
| | | APPLICANT(S) Lisheng HUANG | | | |
| | | FILING DATE December 20, 1995 | | GROUP 2616 | |

| U.S. PATENT DOCUMENTS | | | | | | |
|-----------------------|------------|------------|----------------|-------|----------|-------------|
| EXAMINER'S INITIALS | PATENT NO. | DATE | NAME | CLASS | SUBCLASS | FILING DATE |
| | 4,313,036 | 01/26/1982 | JABARA et al. | | | |
| | 4,375,097 | 02/22/1983 | ULUG | | | |
| | 4,630,262 | 12/16/1986 | CALLENS et al. | | | |
| | 4,782,485 | 11/01/1988 | GOLLUB | | | |

| FOREIGN PATENT DOCUMENTS | | | | | | | |
|--------------------------|-----------------|------------|---------|-------|----------|-------------|----|
| EXAMINER'S INITIALS | PATENT NO. | DATE | COUNTRY | CLASS | SUBCLASS | Translation | |
| | | | | | | Yes | No |
| | EP 0 235 257 | 09/09/1987 | EUROPE | | | Abst. | |
| | EP 0 335 562 A2 | 10/04/1989 | EUROPE | | | Abst. | |

| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | |
|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | 1979 Annual Technical Report, "A Research Program in Computer Technology", October 1978-September 1979, Prepared for the Defense Advanced Research Projects Agency, University of Southern California, ISI-SR-80-17, 19 total pages. |
| | D. COHEN et al., "A Network Voice Protocol NVP-II", Lincoln Laboratory Massachusetts Institute of Technology, April 1, 1981, ISI/RR-81-90, 71 total pages. |
| | 1982 Annual Technical Report, "A Research Program in Computer Technology", July 1981-June 1982, University of Southern California, ISI/SR-83-23, 14 total pages. |
| | Annual Report to the Defense Communications Agency, "Network Speech Systems Technology Program", Massachusetts Institute of Technology Lincoln Laboratory, October 1, 1980-September 30, 1981, issued February 4, 1982, 38 total pages. |
| | H. M. HEGGESTAD et al., "Voice and Data Communication Experiments on a Wideband Satellite/Terrestrial Internetwork System", IEEE International Conference on Communications, Integrating Communication for World Progress, June 19-22, 1983, 9 total pages. |
| | Annual Report to the Defense Communications Agency, "Defense Switched Network Technology and Experiments Technology", Massachusetts Institute of Technology Lincoln Laboratory, October 1, 1981-September 30, 1982, issued April 5, 1983, 13 total pages. |
| | I. MERRITT, "Providing Telephone Line Access to a Packet Voice Network", University of Southern California, February 1983, ISI/RR-83-107, 22 total pages. |
| | C. J. WEINSTEIN, "The Experimental Integrated Switched Network-a system-Level Network Text Facility", Proceedings of 1983 IEEE Military Communications Conference, Washington, D.C., October 31, 1983-November 2, 1983, 9 total pages. |

| | |
|----------|-----------------|
| EXAMINER | DATE CONSIDERED |
|----------|-----------------|

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

| | | | | | |
|------------------------------------------------------------|-----------------------------------------|----------------------------------|--|-------------------------------|--|
| INFORMATION DISCLOSURE CITATION PTO-1449 | CUSTOMER NUMBER 25537 | ATTORNEY'S DKT No. RIC95042 | | APPLICATION No. 08/575,433 | |
| | | APPLICANT(S) Lisheng HUANG | | | |
| | | FILING DATE December 20, 1995 | | GROUP 2616 | |

| U.S. PATENT DOCUMENTS | | | | | | |
|-----------------------|------------|------------|-----------------|-------|----------|-------------|
| EXAMINER'S INITIALS | PATENT NO. | DATE | NAME | CLASS | SUBCLASS | FILING DATE |
| | 4,872,157 | 10/03/1989 | HEMMADY et al. | | | |
| | 4,872,159 | 10/03/1989 | HEMMADY et al. | | | |
| | 4,872,160 | 10/03/1989 | HEMMADY et al. | | | |
| | 4,875,206 | 10/17/1989 | NICHOLS et al. | | | |
| | 4,894,824 | 01/16/1990 | HEMMADY et al. | | | |
| | 4,899,333 | 02/06/1990 | ROEDIGER | | | |
| | 4,922,486 | 05/01/1990 | LIDINSKY et al. | | | |

| FOREIGN PATENT DOCUMENTS | | | | | | | |
|--------------------------|-----------------|------------|---------|-------|----------|-------------|----|
| EXAMINER'S INITIALS | PATENT NO. | DATE | COUNTRY | CLASS | SUBCLASS | Translation | |
| | | | | | | Yes | No |
| | EP 0 365 885 A2 | 05/02/1990 | EUROPE | | | Abst. | |
| | EP 0 381 365 A2 | 08/08/1990 | EUROPE | | | Abst. | |
| | EP 0 722 237 A1 | 07/17/1996 | EUROPE | | | Abst. | |

| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | |
|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | S. CESNER et al., "Wideband Communications", 1984 Annual Technical Report, University of Southern California, ISI/SR-85-150, July 1983-June 1984, 13 total pages. |
| | Annual Report to the Defense Communications Agency, "Defense Switched Network Technology and Experiments Program", Massachusetts Institute of Technology Lincoln Laboratory, October 1, 1982-September 30, 1983, issued February 29, 1984, 19 total pages. |
| | P. GROSS, "Proceedings of the 15-17 October 1986 Joint Meeting of the Internet Engineering and Internet Architecture Task Forces", Fourth IETF, The Mitre Corporation, 37 total pages. |
| | L. T. CORLEY, "BellSouth Trial of Wideband Packet Technology", BellSouth Services, 1990 IEEE, CH2829-0/90/0000-1000, 3 total pages. |
| | Y. INOUE et al., "Evolution Scenario of Broadband Services Based on Granulated Broadband Network Concept", IEEE Region 10 Conference, Tencon 92, 11 th -13 th November, 1992, 5 total pages. |
| | Y. INOUE et al., "Granulated Broadband Network Applicable to B-ISDN and PSTN Services", IEEE Journal on Selected Areas in Communications, Vol. 10, No. 9, December 1992, 15 total pages. |

| | |
|----------|-----------------|
| EXAMINER | DATE CONSIDERED |
|----------|-----------------|

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

| | | | |
|------------------------------------------------------------|-----------------------------------------|----------------------------------|-------------------------------|
| INFORMATION DISCLOSURE CITATION PTO-1449 | CUSTOMER NUMBER 25537 | ATTORNEY'S DKT NO. RIC95042 | APPLICATION NO. 08/575,433 |
| | | APPLICANT(S) Lisheng HUANG | |
| | | FILING DATE December 20, 1995 | GROUP 2616 |

| U.S. PATENT DOCUMENTS | | | | | | |
|-----------------------|------------|------------|------------------|-------|----------|-------------|
| EXAMINER'S INITIALS | PATENT NO. | DATE | NAME | CLASS | SUBCLASS | FILING DATE |
| | 4,942,574 | 07/17/1990 | ZELLE | | | |
| | 4,958,341 | 09/18/1990 | HEMMADY et al. | | | |
| | 5,115,431 | 05/19/1992 | WILLIAMS et al. | | | |
| | 5,327,421 | 07/05/1994 | HILLER et al. | | | |
| | 5,345,446 | 09/06/1994 | HILLER et al. | | | |
| | 5,365,524 | 11/15/1994 | HILLER et al. | | | |
| | 5,390,175 | 02/14/1995 | HILLER et al. | | | |
| | 5,408,237 | 04/18/1995 | PATTERSON et al. | | | |
| | 5,422,882 | 06/06/1995 | HILLER et al. | | | |
| | 5,426,636 | 06/20/1995 | HILLER et al. | | | |
| | 5,452,297 | 09/19/1995 | HILLER et al. | | | |

| FOREIGN PATENT DOCUMENTS | | | | | | | |
|--------------------------|-------------|------------|---------|-------|----------|-------------|----|
| EXAMINER'S INITIALS | PATENT NO. | DATE | COUNTRY | CLASS | SUBCLASS | Translation | |
| | | | | | | Yes | No |
| | WO 97/23078 | 06/26/1997 | WIPO | | | | |

| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | |
|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | V. CERF et al., "A Protocol for Packet Network Intercommunication", IEEE Transactions on Communications, No. 8, May 1974, 12 total pages. |
| | R. COLE, "Dialing in the WB Network", Information Sciences Institute University of Southern California, Dialing-Cole.83, April 30, 1981, 19 total pages. |
| | F. HAPGOOD, "Dialing without dollars", July 1995, Vol. 17, No. 4, pp. 18, Journal code: INO, 1 total page. |
| | C. YANG, "INETPhone: Telephone Services and Servers on Internet", Network Working Group, April 1995, http://ds.internic.net/rfc/rfc1789.txt , 6 total pages. |
| | T. CHEN et al., "Integrated Voice/Data Switching", IEEE Communication Magazine, June 1988, Vol. 26, No. 6, 11 total pages. |
| | B. FREZZA, "The Internet Phone is Poised to Conquer", CommunicationsWeek®, December 11, 1995, http://techweb.cmp.com/cw/current , 3 total pages. |

| | |
|----------|-----------------|
| EXAMINER | DATE CONSIDERED |
|----------|-----------------|

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

| | | | | | | | |
|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------|-------------------------------|----------|----------------------------------|---------------|
| INFORMATION DISCLOSURE CITATION PTO-1449 | CUSTOMER NUMBER 25537 | ATTORNEY'S DKT No. RIC95042 | APPLICATION No. 08/575,433 | APPLICANT(S) Lisheng HUANG | | FILING DATE December 20, 1995 | GROUP 2616 |
| U.S. PATENT DOCUMENTS | | | | | | | |
| EXAMINER'S INITIALS | PATENT NO. | DATE | NAME | CLASS | SUBCLASS | FILING DATE | |
| | 5,483,549 | 01/09/1996 | WEINBERG et al. | | | | |
| | 5,594,784 | 01/14/1997 | VELIUS | | | | |
| | 5,608,447 | 03/04/1997 | FARRY et al. | | | | |
| | 5,726,984 | 03/10/1998 | KUBLER et al. | | | | |
| | 5,740,164 | 04/14/1998 | LIRON | | | | |
| | 5,764,741 | 06/09/1998 | BARAK | | | | |
| | 6,157,621 | 12/05/2000 | BROWN et al. | | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
| EXAMINER'S INITIALS | PATENT NO. | DATE | COUNTRY | CLASS | SUBCLASS | Translation | |
| | | | | | | Yes | No |
| | | | | | | | |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | | | | | | |
| | "Internet Access: Internet phone-to-phone technology now a reality...", EDGE Publishing, August 12, 1996, 2 total pages. | | | | | | |
| | "Internet Phone Saves 50% on Long Distance", 411 Newsletter, August 5, 1996, Vol. 17, No. 15, United Communications Group, 1 total page. | | | | | | |
| EXAMINER | | | | DATE CONSIDERED | | | |

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

| | | | |
|------------------------------------------------------------|-----------------------------------------|----------------------------------|-------------------------------|
| INFORMATION DISCLOSURE CITATION PTO-1449 | CUSTOMER NUMBER 25537 | ATTORNEY'S DKT No. RIC95042 | APPLICATION No. 08/575,433 |
| | | APPLICANT(S) Lisheng HUANG | |
| | | FILING DATE December 20, 1995 | GROUP 2616 |

| U.S. PATENT DOCUMENTS | | | | | | |
|-----------------------|------------|------|------|-------|----------|-------------|
| EXAMINER'S INITIALS | PATENT NO. | DATE | NAME | CLASS | SUBCLASS | FILING DATE |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| FOREIGN PATENT DOCUMENTS | | | | | | | |
|--------------------------|------------|------|---------|-------|----------|-------------|----|
| EXAMINER'S INITIALS | PATENT NO. | DATE | COUNTRY | CLASS | SUBCLASS | Translation | |
| | | | | | | Yes | No |
| | | | | | | | |

| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | |
|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | "Internet Phone Calls are Cheap but Limited", New Media Markets, February 23, 1995, Financial Times Business Information, Ltd., ISSN: 0265-4717, 3 total pages. |
| | "Internet Telephony Seems to be Evolving East, But is there Anyone on the Line?", Computergram International, August 19, 1996, No. 2980, ISSN: 0268-716X, 3 total pages. |
| | "Internet's International Phone Calls are Cheap But Limited", Telecom Markets, Financial Times Business Information ID, March 2, 1995, ISSN: 0267-1484, 3 total pages. |
| | "NetSpeak Corporation introduces WebPhone, Industry's First Internet-Based Telephony Solution for Business Users", March 18, 1996, 3 total pages. |
| | M. MILLS, The Washington Post, "Phone Service Via the Internet May Slash Rates", August 11, 1996, 2 total pages. |
| | A. SEARS, "The Effect of Internet Telephony on the Long Distance Voice Market", January 14, 1995, 24 total pages. |
| | National Technical Information Service, "Wideband Integrated Voice/Data Technology", ADA132284, March 31, 1983, Massachusetts Inst. Of Tech., Lexington, Lincoln Lab, 28 total pages. |
| | J. DETREVILLE et al., "A Distributed Experimental Communications System", Advances in Local Area Networks, IEEE Press, 1987, 10 total pages. |

| | |
|----------|-----------------|
| EXAMINER | DATE CONSIDERED |
|----------|-----------------|

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

| | | | |
|------------------------------------------------------------|-----------------------------------------|----------------------------------|-------------------------------|
| INFORMATION DISCLOSURE CITATION PTO-1449 | CUSTOMER NUMBER 25537 | ATTORNEY'S DKT No. RIC95042 | APPLICATION No. 08/575,433 |
| | | APPLICANT(S) Lisheng HUANG | |
| | | FILING DATE December 20, 1995 | GROUP 2616 |

| U.S. PATENT DOCUMENTS | | | | | | |
|------------------------|------------|------|------|-------|----------|----------------|
| EXAMINER'S INITIALS | PATENT NO. | DATE | NAME | CLASS | SUBCLASS | FILING DATE |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| FOREIGN PATENT DOCUMENTS | | | | | | | |
|--------------------------|------------|------|---------|-------|----------|-------------|----|
| EXAMINER'S INITIALS | PATENT NO. | DATE | COUNTRY | CLASS | SUBCLASS | Translation | |
| | | | | | | Yes | No |
| | | | | | | | |
| | | | | | | | |

| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | |
|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | M. BORDEN et al., "RFC 1821 (rfc1821) -- Integration of Real-time Services in an IP-ATM Network", Internet RFC/STD/FYI/BCP Archives, August 1995, 20 total pages. |
| | M. LAUBACH, "Classical IP and ARP over ATM", Hewlett-Packard Laboratories, January 1994, http://www.faqs.org/rfc/rfc1577.txt , 16 total pages. |
| | D. COMER, "Internetworking with TCP/IP", Volume 1, Principles, Protocols, and Architecture, Department of Computer Sciences, 1995, 24 total pages. |
| | M. PEREZ et al., "ATM Signaling Support for IP over ATM", Network Working Group, February 1995, http://www.ietf.org/rfc/rfc1755.txt , 30 total pages. |
| | |
| | |
| | |
| | |

| | |
|----------|-----------------|
| EXAMINER | DATE CONSIDERED |
|----------|-----------------|

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).